

### Abstract of the Disclosure

Inert, thermally and mechanically stable porous ceramic solid phase supports for use in solid phase synthesis of molecules wherein the porous ceramic solid supports can be used under a wide variety of reaction

- 5 conditions and in synthesis methods, including but not limited to organic, regular, multiple parallel, or combinatorial organic synthesis on a solid phase. Methods of using the porous ceramic solid supports for solid phase synthesis of molecules, for solid phase synthesis of polypeptides or peptidomimetics, for generating combinatorial libraries of linkers, and for
- 10 combinatorial synthesis of compounds, including small molecules and aromatic and heteroaromatic compounds.